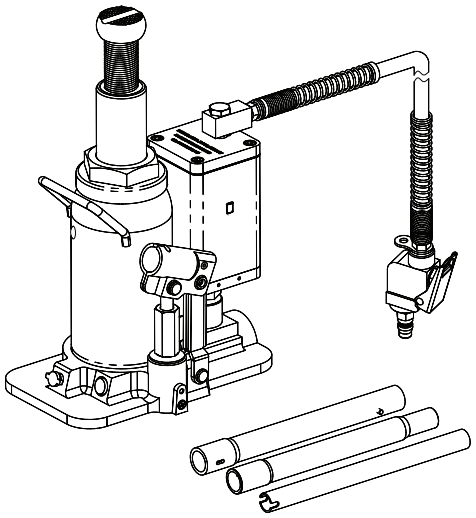
Operating Instructions & Parts Manual

Air/ Manual Hydraulic Bottle Jacks

Model	Capacity
18125	12 Ton
18205	20 Ton



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ ADVERTENCIA

- Leer, comprender, y seguir las instrucciónes antes de utilizar el aparato.
- El manual de instrucciónes y la información de seguridad deben estar comunicado en lengua del operador antes del uso.
- No seguir estas indicaciónes puede causar daños personales o materiales.

⚠ WARNING

To avoid **crushing and related injuries**:

NEVER work on, under or around a load supported only by a hydraulic jack. **ALWAYS** use adequately rated jack stands.

SFA Companies
http://www.omegalift.com

Read this manual and follow all the Safety Rules and Operating Instructions before using this product.

Printed in China
18125-M1 rev 04/08

SAFETY and GENERAL INFORMATION

Save these instructions. For your safety, read, understand, and follow the information provided with and on this jack before using. The owner and operator of this equipment shall have an understanding of this jack and safe operating procedures before attempting to use. The owner and operator shall be aware that use and repair of this product may require special skills and knowledge. Instructions and safety information shall be conveyed in the operator's native language before use of this jack is authorized. If any doubt exists as to the safe and proper use of this jack, remove from service immediately.

Inspect before each use. Do not use if broken, bent, cracked or damaged parts are noted. Any jack that appears damaged in any way, or operates abnormally shall be removed from service immediately. If the jack has been or suspected to have been subjected to a shock load (a load dropped suddenly, unexpectedly upon it), immediately discontinue use until jack has been checked by a factory authorized service center (contact distributor or manufacturer for list of authorized service centers). It is recommended that an annual inspection be done by qualified personnel. Labels and Operator's Manuals are available from manufacturer.

PRODUCT DESCRIPTION

Omega Air Actuated Hydraulic Bottle Jacks are designed to lift, not support, rated capacity loads consisting of one end of a vehicle. Immediately after lifting, the load must be supported by a pair of appropriately rated jack stands. Ensure that air source can dedicate 7.8 CFM @ 110-175 psi to each jack operated. A minimum of 150 psi air pressure is required to raise rated capacity load.

***Never** use hydraulic jack as a stand alone device. After lifting, **immediately** support the lifted load with a pair of appropriately rated jack stands.*

PREPARATION

Before Use

1. Verify that the product and application are compatible, if in doubt call Omega Technical Service (888) 332-6419.
2. Before using this product, read the operator's manual completely and familiarize yourself thoroughly with the product, its components and recognize the hazards associated with its use.
3. Assemble handle, ensure spring clips align with slots.
4. To familiarize yourself with basic operation, use the notched end of provided handle to engage and turn the release valve:
   a. Clockwise until firm resistance is felt to further turning. This is the '**CLOSED**' release valve position used to **raise** the ram plunger.
   b. Counter-clockwise, but no more than 1/2 turn from the closed position. This is the '**OPEN**' release valve position used to **lower** the ram plunger.
5. With ram fully retracted, locate and remove the oil filler plug/screw. Insert the handle into the handle sleeve, then pump 6 to 8 strokes. This will help release any pressurized air, which may be trapped within the reservoir. Ensure the oil level is just below the oil filler hole. Reinstall the oil filler plug/screw.
6. Pour a teaspoon of good quality, air tool lubricant into the air supply inlet of the lift control valve. Connect to air supply and operate for 3 seconds to evenly distribute lubricant.
7. This product is equipped with the popular 1/4" NPT air coupler. When installing a different air coupler of your choice, ensure that thread tape or compound is used when servicing connections. To ensure dependable, trouble free operation an inline air dryer and oiler is recommended.
8. Check that the pump operates smoothly and that the extension screw will thread up/down easily before putting into service. Replace worn or damaged parts and assemblies with Omega authorized replacement parts only.

Bleeding / Venting Trapped Air

With the release valve in the OPEN position (4b above) and with ram plunger fully lowered, locate and remove the oil filler plug/screw. Insert the handle into the handle sleeve; then pump 6 to 8 full strokes. This will help release any pressurized air which may be trapped within the reservoir. Oil level should be even with the bottom of the oil filler hole. Reinstall the oil filler plug/screw.

SPECIFICATIONS

Model	Capacity	Base Size (L x W)	Min. Height	Max. Height	Volume Hyd. Oil	Net Weight
18125	12 Ton	8 7/8" x 5 3/4"	9 1/2"	18 5/8"	12.2 OZ/ 360 mL	26.7 lb.
18205	20 Ton	9 1/4" x 6 3/4"	9 1/2"	18 1/4"	16.7 OZ/ 500 mL	36.4 lb.

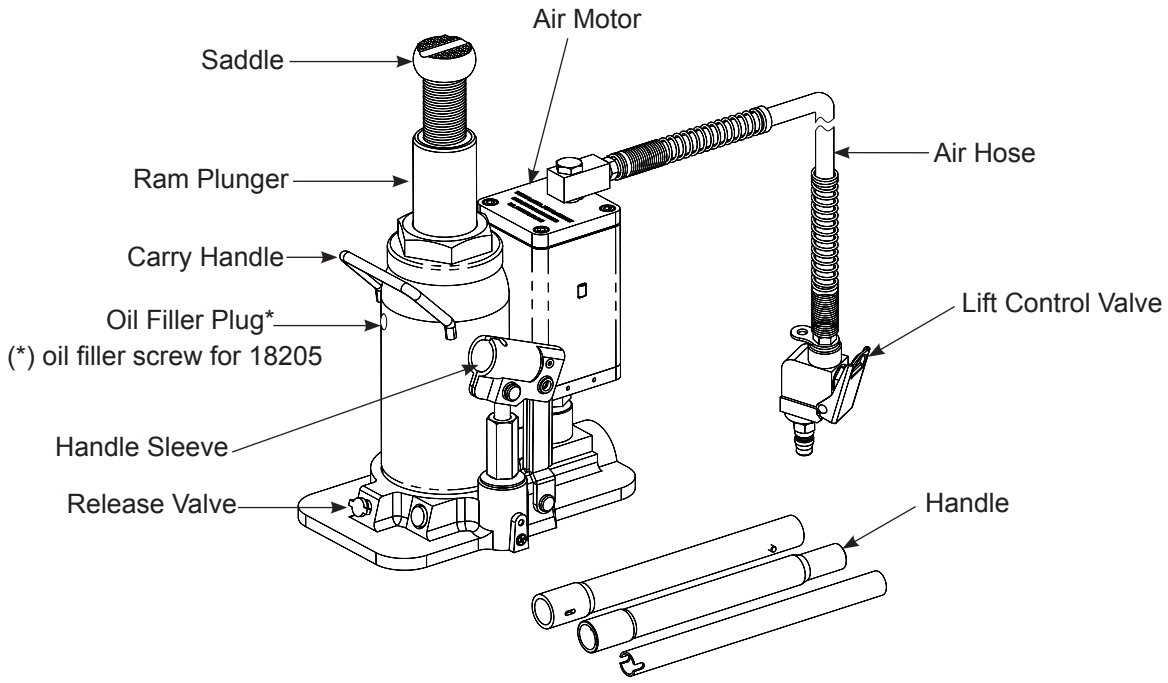


Figure 1 - 18125 & 18205 Nomenclature (18125 shown)

⚠ WARNING

- **Study, understand, and follow** all printed materials provided with/on this product before use.
- **Do not** exceed rated capacity.
- **This is a lifting device only!**
- **Immediately** after lifting, support the load with **a pair** of appropriately rated jack stands.
- Use only on hard, level surface.
- Do not use adapters or accessories that are not provided initially.
- Lift only on areas of the vehicle as specified by the vehicle manufacturer.
- Never wire, clamp or otherwise disable the lift control valve to function by other than operator's hand.
- No alterations shall be made to this product.
- Failure to heed these markings may result in personal injury and/or property damage.

⚠ WARNING

To avoid **crushing and related injuries**:

- **Never** work on, under or around a load supported only by hydraulic jack.
- **Always** use adequately rated jack stands.
- Chock each unlifted tire in both directions.
- **Do not** use this device to lift, level, lower, support nor move a house, mobile home, travel trailer, camper or any building structure.
- **Be alert** and **sober** when using this product. Do not operate under the influence of drugs or alcohol.

⚠ *Only attachments and/or adapters supplied by the manufacturer shall be used. Lift only on areas of the vehicle as specified by the vehicle manufacturer.*

OPERATION

Raising the Ram Plunger

1. Assemble handle, ensure that spring clips align with slots.
2. Place vehicle in the park, with emergency brake on and wheel securely chocked to prevent inadvertent vehicle movement.
3. Locate and close release valve by turning handle clockwise until firm resistance is felt to further thread engagement.
4. Verify lift point, center jack saddle under lift point.
5. Squeeze the lift control valve or insert handle into handle sleeve and pump to contact lift point. To lift, continue pumping until load reaches desired height. **DO NOT OPERATE BY AIR AND BY HAND PUMPING AT THE SAME TIME.**
6. **Immediately** secure lifted load with appropriately rated jack stands.

⚠ *Use only the handle provided by jack manufacturer. The handle provided with this jack will safely engage the release valve and operate the handle sleeve. If handle is worn, operates abnormally, or will not positively engage the release valve, **STOP**, discontinue use of the jack until a factory replacement handle can be acquired.*

⚠ *Do not use an extender on the air hose or the operating handle.*

Lowering

⚠ *Make certain that all personnel are clear of the load before lowering. **Control** the rate of descent of the load **at all times**. The **more** you open the release valve, the **faster** the load descends.*

1. Raise load high enough to clear the jack stands, then carefully remove jack stands (**always** used in pairs).
2. Slowly turn the handle counter-clockwise, but no more than 1/2 turn. <u>If the load fails to lower</u>:
   a. Use another jack to raise the vehicle high enough to reinstall jack stands.
   b. Remove the affected jack and then the stands.
   c. Lower the load by turning the release valve counter-clockwise, but no more than 1/2 turn.
3. After removing jack from under the load, push ram and handle sleeve down to reduce exposure to rust and contamination.

MAINTENANCE

Important: Use only a good grade hydraulic jack oil. Avoid mixing different types of fluid and NEVER use brake fluid, turbine oil, transmission fluid, motor oil or glycerin. Improper fluid can cause premature failure of the jack and the potential for sudden and immediate loss of load. We recommend Mobil DTE 13M.

Adding oil

1. With ram plunger fully lowered and pump piston fully depressed, set jack in its upright, level position. Remove oil filler screw/plug.
2. Fill with oil until just below the rim of the oil filler screw/plug hole. Reinstall the oil filler screw/plug.

Changing oil

For best performance and longest life, replace the complete fluid supply at least once per year.

1. With ram plunger fully lowered and pump piston fully depressed, remove the oil filler screw/plug.
2. Lay the jack on its side and drain the fluid into a suitable container.

Note: Dispose of hydraulic oil in accordance with local regulations.

3. Fill with oil until just below the rim of the oil filler screw/plug hole. Reinstall the oil filler screw/plug.

Lubrication

1. A periodic coating of light lubricating oil to pivot points, axles and hinges will help to prevent rust and assure that pump assemblies move freely.
2. When used on a daily basis, air pump should be internally lubricated before each use. Use **only** good quality air tool lubricant. If no inline oiler is used, pour a teaspoon of air tool oil into the inlet of the air control valve. Simply operate the jack using the air feature in order to fully distribute the oil.

Cleaning

Periodically check the pump piston and ram plunger for signs of rust or corrosion. Clean as needed and wipe with an oily cloth.

Note: Never use sandpaper or abrasive material on these surfaces!

Storage

When not in use, store the jack with pump piston and ram plunger fully retracted and air supply disconnected.

TROUBLESHOOTING

Symptom	Possible Causes	Corrective Action
Jack will not lift load	• Release valve not tightly closed • Overload condition • Air pressure inadequate	• Ensure release valve tightly closed • Remedy overload condition • Ensure adequate air pressure
Jack will lift, but not maintain pressure	• Release valve not tightly closed • Hydraulic unit malfunction	• Ensure release valve tightly closed • Contact Omega Tech. Service
Jack will not lower after unloading	• Reservoir overfilled	• Ensure load is removed, then drain fluid to proper level
Poor lift performance	• Fluid level low • Air trapped in system	• Ensure proper fluid level • With ram fully retracted, remove oil filler plug/screw to let pressurized air escape, then reinstall oil filler plug/screw
Will not lift to full extension	• Fluid level low	• Ensure proper fluid level

REPLACEMENT PARTS

Not all components of the jack are replacement items, but are illustrated as a convenient reference of location and position in the assembly sequence. When ordering parts, give Model number, serial number and parts description. Call or write for current pricing: SFA Companies Inc. 10939 N. Pomona Ave. Kansas City, MO 64153, U.S.A.
Tel:(888)332-6419 Fax:(816)891-6599 E-Mail:sales@omegalift.com Omega Website: http://www.omegalift.com

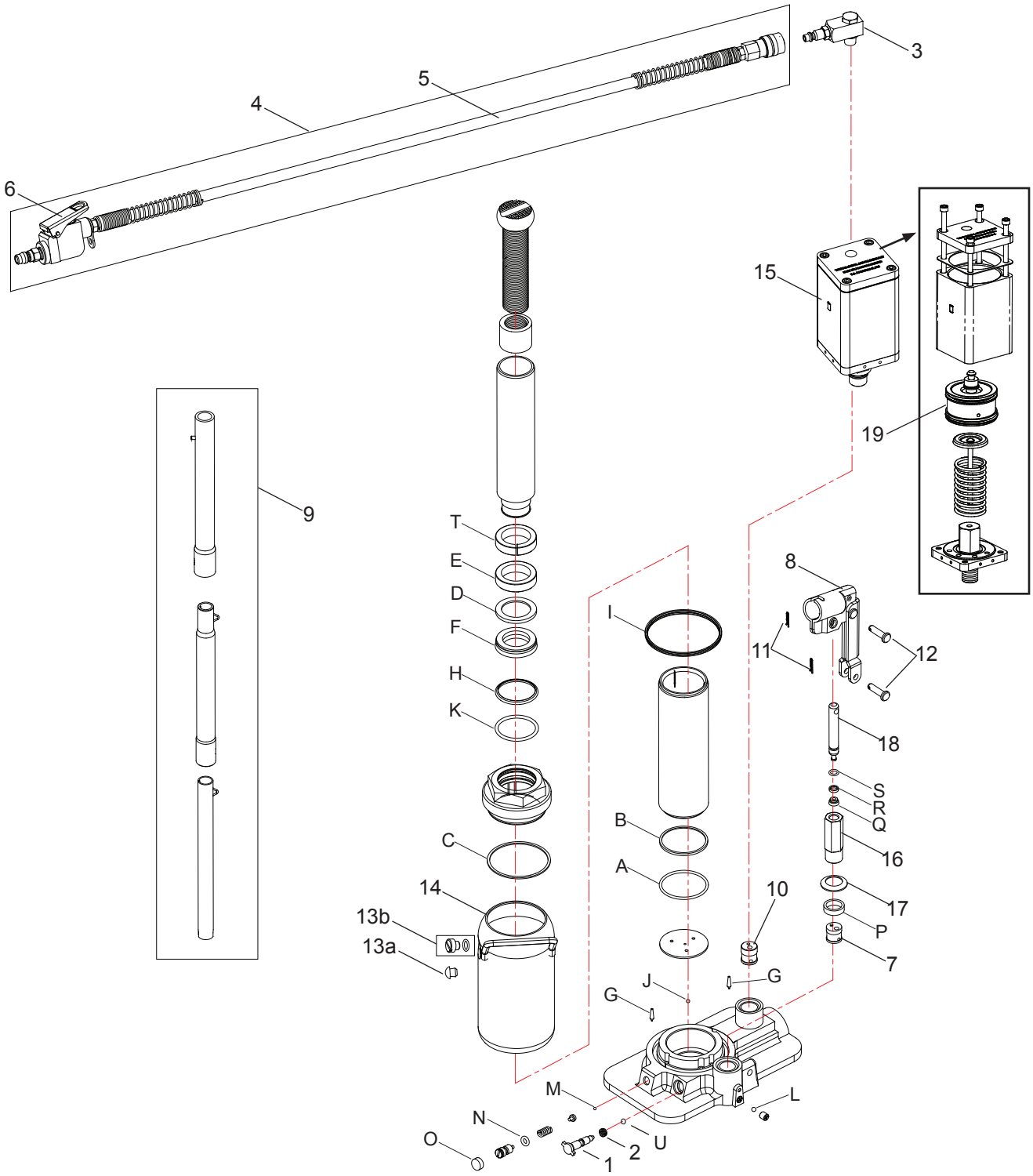


Figure 2 - Replacement Parts Illustration for Model 18125 & 18205 (18205 shown)

Replacement Parts List for Model 18125 & 18205

Item	Part# for 18125	Part# for 18205	Description	Qty
1	A20060-0003	A20060-0003	Release Valve	1
2	A20060-0004	A20060-0004	O-ring	1
3	A27010-0002	A27010-0002	Air Inlet Swivel	1
4	A20060-0005	A20060-0005	Air Hose Assembly	1
5	A20060-0006	A20060-0006	Air Hose	1
6	A20060-0007	A20060-0007	Lift Control Valve	1
7	B20600-0001	B20600-0001	Hyd. Cartridge	1
8	A20060-0008	A20060-0008	Handle Socket	1
9	A20060-0001	A20060-0001	Handle Assy.	1
10	A20060-0009	A20060-0009	Hyd. Cartridge	1
11	F36100-0002	F36100-0002	Snap Pin	2
12	A20060-0010	A20060-0010	Pin	2
13a	F36100-0001	N/A	Filler Plug	1
13b	N/A	A20060-0002	Filler Screw	1
14	A24060-0002	A20060-0013	Reservoir	1
15	A27010-0001	A27010-0001	Air Motor	1
16	A20060-0011	A20060-0011	Pump Cylinder	1
17	B20600-0002	B20600-0002	Washer	1
18	A20060-0014	A20060-0014	Pump Piston	1
19	A270-01100-0000	A270-01100-0000	Piston, Air Motor	1
20	A24060-0000	A20060-0000	Seal Kit (includes 2,13 & A ~ T)	1
21	A27010-0000	A27010-0000	Seal Kit, Air Motor #15	1
22	18125-L0	18205-L0	Label (s)	1
23	18125-M1	18205-M1	Manual	1

Seal Kit (Item#20) Contents:

Item	Description	Qty
2	O-ring	1
13	Filler Plug/ Screw	1
A	O-ring	1
B	Back-up Ring	1
C	O-ring	1
D	Back-up Ring	1
E	Ram Bearing	1
F	U-cup	1
G	Filter	2
H	Dust Seal	1
I	Oil Seal	1

Item	Description	Qty
J	Steel Ball, D4	1
K	O-ring	1
L	Steel Ball, D5	1
M	Steel Ball, D3	1
N	Seal	1
O	Safety Valve Cap	1
P	U-seal	1
Q	U-cup	1
R	Back-up Ring	1
S	O-ring	1
T	O-ring (for 18205 only)	1
U	Steel Ball, D6	

(**) **Replacement requires special skills, knowledge, and equipment. Only** an authorized service center may perform the repair and/or replacement of these items. Contact Omega technical service for list of service centers.

ONE YEAR LIMITED WARRANTY

For a period of one (1) year from date of purchase, **SFA Companies** will repair or replace, at its option, without charge, any of its products which fails due to a defect in material or workmanship under normal usage. This limited warranty is a consumer's exclusive remedy.

Performance of any obligation under this warranty may be obtained by returning the warranted product, freight prepaid, to **SFA Companies** Warranty Service Department, 10939 N. Pomona Ave., Kansas City, MO 64153.

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